

Nomenclature of the Chief Surface Currents of Jupiter. By
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The existence of a number of distinct surface currents upon the planet *Jupiter* is now very well known. In a paper published in the *Monthly Notices*, vol. lvi. p. 143, I enumerated nine such currents, most of which are permanent features of the planet. As it is often necessary to refer to the different currents, it is becoming increasingly desirable to have some simple designations by which to distinguish the most important of them. I therefore venture to suggest the following names.

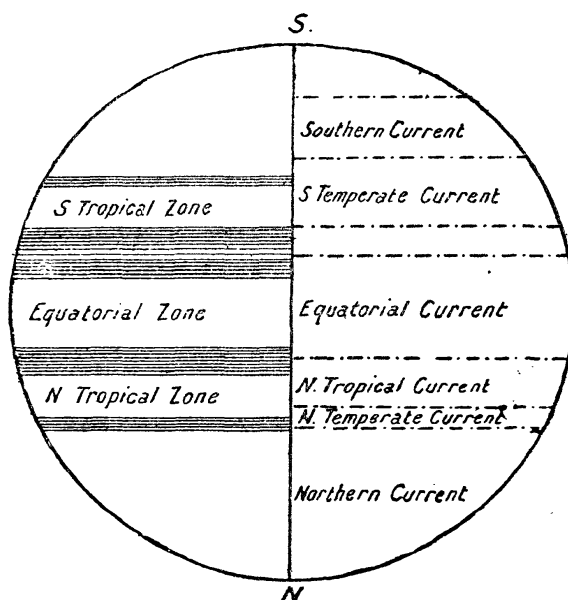
The most important current of all is undoubtedly the one occupying the equatorial regions of the planet. This is already well known as the *Equatorial Current*, V.*

To the north of this lies the current IV., and since this falls to a great extent in the bright north tropical zone, it might conveniently be termed the *North Tropical Current*.

Further north is the narrow but remarkable current III., which, from its connection with the north temperate belt, might well be called the *North Temperate Current*.

South of the equatorial belts we have the important current VIII., and as the south temperate belt is wholly included within its limits, this might be named the *South Temperate Current*.

The somewhat swifter current IX., which lies south of the last one, might be called the *Southern Current*.



The chief surface currents of *Jupiter*.

* The Roman numerals are those affixed to the different currents in the paper above referred to.

The accompanying diagram will illustrate clearly the nomenclature here proposed. One half of the diagram shows the positions of the more important and permanent belts, whilst on the other half the approximate limits of the chief currents are indicated, with the suggested names.

The boundaries or limits of some of the currents vary, however, from time to time with respect to the belts, so that they

Ephemeris for Physical Observations of

Greenwich Noon.	P	L-O	B	Apparent Diameter.			d	Q.	B'
1898.				Equat. 2a.	Defect. 2b.	Polar 2b.			
Dec. 10	21°22	76°99	-2°92	32°89	0°14	30°84	7°49	291°12	-3°11
12	21°13	77°35	2°93	33°03	°15	30°97	7°70	290°98	3°13
14	21°05	77°70	2°94	33°17	°16	31°10	7°90	290°85	3°14
16	20°96	78°05	2°96	33°31	°17	31°23	8°10	290°72	3°16
18	20°88	78°39	2°97	33°46	°17	31°36	8°29	290°60	3°17
20	20°80	78°72	-2°98	33°61	0°18	31°50	8°47	290°48	-3°18
22	20°72	79°04	2°99	33°76	°19	31°64	8°64	290°36	3°19
24	20°64	79°36	3°00	33°92	°20	31°79	8°80	290°25	3°20
26	20°56	79°68	3°01	34°08	°21	31°94	8°97	290°14	3°21
28	20°49	79°99	3°02	34°24	°22	32°09	9°13	290°03	3°22
30	20°41	80°29	-3°03	34°41	0°23	32°25	9°28	289°93	-3°23
1899.									
Jan. 1	20°33	80°58	3°04	34°58	°24	32°41	9°42	289°82	3°24
3	20°25	80°87	3°05	34°76	°24	32°58	9°55	289°71	3°25
5	20°17	81°15	3°06	34°95	°25	32°75	9°68	289°60	3°26
7	20°10	81°42	3°07	35°14	°26	32°93	9°80	289°50	3°27
9	20°03	81°68	-3°08	35°33	0°26	33°11	9°91	289°39	-3°29
11	19°96	81°92	3°09	35°52	°27	33°29	10°00	289°29	3°30
13	19°90	82°16	3°10	35°71	°27	33°48	10°09	289°19	3°31
15	19°84	82°39	3°11	35°91	°28	33°67	10°17	289°09	3°32
17	19°78	82°61	3°12	36°11	°28	33°86	10°24	289°00	3°33
19	19°72	82°83	-3°13	36°32	0°29	34°05	10°30	288°91	-3°34
21	19°66	83°03	3°14	36°54	°29	34°25	10°35	288°82	3°35
23	19°60	83°22	3°15	36°76	°30	34°45	10°39	288°73	3°36
25	19°55	83°40	3°16	36°98	°30	34°66	10°42	288°64	3°37
27	19°50	83°57	3°17	37°20	°30	34°87	10°44	288°55	3°38
29	19°46	83°73	-3°17	37°43	0°31	35°08	10°44	288°47	-3°38
31	19°42	83°88	-3°18	37°66	0°31	35°30	10°44	288°39	-3°39